# Kennedy/Jenks Consultants

# **Engineers & Scientists**

16 January 2003

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Mr. Mark Burley Joseph Simon & Sons 2200 East River Street Tacoma, Washington 98420

Subject:

Quarterly Monitoring Report Joseph Simon & Sons Site

1601 Taylor Way, Tacoma, Washington

K/J 986054.00

Dear Mr. Burley:

This report summarizes the results of quarterly infiltration basin and Seep #1 discharge monitoring performed between December 2001 and August 2002 at the Joseph Simon & Sons property (site) located at 1601 Taylor Way, Tacoma, Washington.

### PROJECT BACKGROUND

As part of a Remedial Action (RA) performed at the site in August through October 1999, an infiltration basin was installed adjacent to the Hylebos Waterway. In accordance with the Agreed Order and Cleanup Action Plan (Ecology 1998), discharge from the infiltration basin was monitored on a quarterly basis, with the fourth and final monitoring event completed in April 2001. The Agreed Order also required quarterly sampling of any seeps identified on the shoreline perimeter of the site. One seep (designated Seep #1) was identified and sampled in April 2001.

During the four quarterly monitoring events, total and dissolved copper were detected at concentrations above the established site cleanup standard of 3.1 micrograms per liter ( $\mu$ g/l) in the samples collected from the infiltration basin discharge. In addition, total and dissolved copper and lead were detected at concentrations above the site cleanup standards of 3.1 and 8.1  $\mu$ g/l, respectively, in the sample collected from Seep #1. Previous analytical results are summarized in Table 1.

Based on the findings of the four quarterly monitoring events, Ecology issued a letter dated 12 October 2001 requesting additional discharge monitoring (a copy of the letter is provided in Attachment A). The requested additional monitoring included two quarters of infiltration basin discharge monitoring to be performed during periods of active infiltration (i.e., during or immediately after rain events) and three quarters of monitoring Seep #1 at low tide conditions. Ecology requested analyses of the infiltration basin discharge for total and dissolved copper, and of the Seep #1 discharge for total and dissolved lead and copper. This report summarizes the additional infiltration basin and Seep #1 monitoring events.

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### FIELD ACTIVITIES

## **Infiltration Basin Sampling and Seep Sampling**

Surface water samples were collected from the discharge location of the infiltration basin during or shortly after rain events on 18 December 2001 and 19 February 2002. The discharge point was located in the approximate center of the infiltration basin structure (refer to Figure 1). Because rainfall events did not correspond with tides sufficiently low to sample Seep #1, the infiltration basin discharge and Seep #1 discharge were sampled at different times.

Seep #1 was identified and surface water discharge samples were collected on 26 April 2002, 14 June 2002, and 20 August 2002. Seep #1 was located north of the discharge point of the infiltration basin structure at an approximate elevation of 0 feet mean sea level (MSL) (refer to Figure 1).

Surface water samples were collected by directly filling laboratory-prepared sample containers appropriate for each analysis to be performed. Preservatives provided by the analytical laboratory were used where appropriate. Dissolved metals samples were field-filtered using a 0.45-micron filter.

Surface water samples were submitted to Spectra Laboratories of Tacoma, Washington for the following analyses:

- Total and dissolved copper by EPA Method 220.2
- Total and dissolved lead by EPA Method 239.2.

### SUMMARY OF FINDINGS

Analytical results for infiltration basin and Seep #1 discharge sampling and site cleanup standards are summarized in Table 1. Where applicable, practical quantitation limits (PQLs) are also included in Table 1. Analytical reports and chain-of-custody documents are included in Attachment B.

### **Infiltration Basin Discharge**

Analytical results for infiltration basin discharge sampling are summarized below:

- Total copper was detected at concentrations of 4 and 13  $\mu$ g/l, above the site cleanup standard of 3.1  $\mu$ g/l.
- Dissolved copper was not detected at a concentration above the laboratory limit of 1  $\mu$ g/l during the December 2001 monitoring event, and was detected at a concentration of 3  $\mu$ g/l during the February 2002 monitoring event. These concentrations are below the site cleanup standard of 3.1  $\mu$ g/l.

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### Seep #1 Discharge

Analytical results for Seep #1 discharge sampling are summarized below:

- Total copper was detected at concentrations of 3 and 12 μg/l during the June 2002 and August 2002 sampling events, respectively, but was not detected at a concentration above the laboratory reporting limit of 1 μg/l during the April 2002 monitoring event. The total copper concentration of 12 μg/l detected during the August 2002 monitoring event exceeds the site cleanup standard of 3.1 μg/l.
- Dissolved copper was not detected at concentrations above the laboratory limit of 1  $\mu$ g/l during any of the three monitoring events.
- Total lead was not detected at concentrations above the laboratory reporting limit of 1  $\mu$ g/l during the April 2002 and June 2002 monitoring events. During the August 2002 monitoring event, total lead was detected at a concentration of 4  $\mu$ g/l, below the site cleanup standard of 8.1  $\mu$ g/l.
- Dissolved lead was not detected at concentrations above the laboratory reporting limit of 1  $\mu$ g/l during the April 2002 and June 2002 monitoring events, but was detected at a concentration of 1  $\mu$ g/l (below the site cleanup standard of 8.1  $\mu$ g/l) during the August 2002 monitoring event.

### **SUMMARY AND CONCLUSIONS**

Total copper concentrations detected in the infiltration basin discharge samples are within the range of those detected during the initial four quarterly monitoring events, and are slightly above the site cleanup standard of 3.1  $\mu$ g/l. However, dissolved copper concentrations are generally lower than those detected during the previous monitoring events and are consistently below the site cleanup standard of 3.1  $\mu$ g/l.

Total copper and lead concentrations detected in the samples collected from Seep #1 are lower than those detected during the previous monitoring event (April 2001). Total lead concentrations did not exceed the site cleanup standard of 8.1  $\mu$ g/l, and the total copper concentration exceeded the site cleanup standard of 3.1  $\mu$ g/l only in the sample collected in August 2002 (12  $\mu$ g/l). Dissolved copper was not detected in Seep #1 at a concentration above the laboratory reporting limit of 1  $\mu$ g/l, and dissolved lead was detected only in the Seep #1 sample collected in August 2002 at a concentration of 1  $\mu$ g/l, below the site cleanup standard of 8.1  $\mu$ g/l.

Total copper was detected in infiltration basin and Seep #1 discharge samples at concentrations slightly above the site cleanup standard; however, dissolved copper was not detected, or was detected at concentrations below the site cleanup standard, in samples collected at the same time and then field filtered. Dissolved copper is more representative than total copper of surface water discharge conditions from the site because copper-containing particulate matter appears

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to have been entrained in the sample and removed by the field filtration. Due to the sampling technique (grab samples from flowing surface water) collection of samples without entrained sediments is not practicable. Based on the findings of this study, it appears that cleanup standards established for the site have been achieved. Consequently, it does not appear that additional monitoring is warranted for the infiltration basin or Seep #1 discharges.

Kennedy/Jenks Consultants appreciates the opportunity to provide consulting services to Joseph Simon & Sons on this project. If you have any questions regarding the information presented in this report, please call us at (253) 874-0555.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Dean K. Malte

Senior Staff Geologist

Ty C. Schreiner Project Manager

Ineme

Attachments

cc: Ms. Joyce Mercuri, Washington State Department of Ecology

Mr. Guy Sternal, Eisenhower & Carlson

### References:

Washington State Department of Ecology. 1998. Agreed Order No. 98TC-S213 and Cleanup Action Plan, Joseph Simon & Sons 1601 Taylor Way Site. Washington Department of Ecology, Toxics Cleanup Program, Olympia, Washington.

# **Table**

TABLE 1

# INFILTRATION BASIN AND SEEP ANALYTICAL RESULTS Joseph Simon & Sons -- 1601 Taylor Way, Tacoma, Washington

Infiltration				Date S	Date Sampled					
12/28/99   4/8/00   1/30/01   1/30			n Basin				Seep.	70.7		Cleanup
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Bold and italics indicate an analyte concentration above the indicated cleanup level

<sup>(</sup>a) Surface water standards for TPH-Diesel and TPH-Heavy Oil are based on Ecology Model NPDES Permit for surface water discharges from Leaking Underground Storage Tank cleanup sites. Standards for benzene, toluene, and ethylbenzene are based on the Model Toxics Control Act, WAC 173-340-720.

<sup>(</sup>b) "<" denotes that the analyte was not detected at the indicated laboratory detection limit.
(c) Practical Quantitation Limit (PQL) indicated in parentheses. Ecology recognizes that the PQL may be higher than the cleanup standard for a given parameter. In these cases, the cleanup standard may be considered to be attained if the parameter is undetected at the PQL and the conditions outlined in WAC 173-340-707 are met.

<sup>(</sup>d) "---" denotes that analysis of the indcated analyte was not performed.

# **Figure**

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INFILTRATION BASIN RUNOFF SAMPLING MAP FIGURE 1

986054.00/BASIN2.VSD

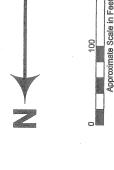
Infiltration basin location. Outline includes berm area (inner arc) and infiltration sand area (outer arc)

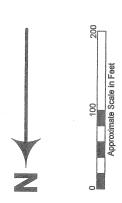
-- Approximate Seep #1 location

Approximate infiltration basin discharge point and water sampling location

9

LEGEND:





# **Appendix A**

Ecology Letter 12 October 2001



### STATE OF WASHINGTON

### DEPARTMENT OF ECOLOGY

P.O. Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

October 12, 2001

Mr. Ty Schreiner, Project Manager Kennedy Jenks Consultants 530 South 336<sup>th</sup> Street Federal Way, WA 98003

Dear Mr. Sehreiner: (1) '.

Re: Simon & Sons, 1601 Taylor Way



Your address is in the Duwamish-Green watershed

In our telephone conversation recently we discussed the infiltration basin and seep monitoring data for the Simon & Sons site at 1601 Taylor Way in Tacoma, and the possibility of de-listing the site from the Department of Ecology's Hazardous Sites List. At this time, it is not possible to de-list the site due to residual copper (and possibly lead) in water discharging from the site. In particular, the January 2001 sample event contained total and dissolved copper quite a bit higher than what would be expected for background levels. Also, the Cleanup Action Plan for the site required four quarters of monitoring for the seep, which has only been sampled once.

Therefore, I request that Simon & Sons conduct additional sampling at the 1601 Taylor Way site as follows:

Infiltration Basin: Collect samples of water from the infiltration basin for two additional quarters. The samples should be collected during conditions of active infiltration (during or immediately after rain events). The samples should be analyzed for total and dissolved copper. Reporting limits should be low enough to compare to the site cleanup standards. The copper samples should be analyzed by ICP-MS for better detection limits in samples with potentially high salt water content.

Seep: Collect water samples from the previously sampled seep on the site at low tide for three additional quarters. The samples should be analyzed for total and dissolved copper and lead. Again, reporting limits should be low enough to compare to site cleanup standards, and the copper samples should be analyzed by ICP-MS.

I would appreciate it if you could send me results of each sample event as they become available. A short letter/report format for presenting the data at the end of sampling is acceptable to me.

Please call me if you have any questions or would like to discuss.

Sincerely,

Joyce Mercuri Site Manager

Toxics Cleanup Program Southwest Regional Office

JM:le(3/tcp)

cc:

Mark Burley, Joseph Simon & Sons Guy Sternal, Eisenhower & Carlson

laceva

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OCT 15 2001

K/J Federal Way

Route Return To/By



# **Attachment B**

Analytical Reports and Chain-of-Custody Documents

2221 Ross Way

Tacoma, WA 98421

(253) 272-4850

12/19/2001

Kennedy/Jenks

530 S. 336th st.

Federal Way, WA 98003

Attn: Dean Malte

Project:

Simon and Sons (986054.00)

Client ID:

IB-DEC01

Sample Matrix:

Wastewater

Date Sampled:

12/18/2001

Date Received:

12/18/2001

Spectra Project:

2001120173

Spectra Number: 1

Analyte	Result	Units	Method
Copper	4	ug/L	EPA 220.2
Dissolved Copper	< 1	ug/L	EPA 220.2

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/sci

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DEC 2.4 2001
K/J Federal Way

Page 1 of 1

Analyses Requested	(3) (4) Turn- Comment/Conditions (complete type, container tumber, etc.)	INDESTAXX DIVINED COPPET SAMPLE	0000114 01014 55	The total of the t	0	1 30000		
Company Kennedy Jenks Address 530 S. 33674 5+	Collection (2) Depth Com	Le.					-	
Client Kennedy Scotts Site Site Site Sons  Project No. 1860 St. CO	Telephone (25 % (10 % ) (1) (1) (1) (1) (1) (1) (1) (1) (1) (							
ossible Hazards Client Site Project No.	Tellej (1)			-				

(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample, use sequential letter for additional groups.

(5) Write each analysis requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

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Signature	Mon Dun	
Print Name	Kerrie Nason	
Time	3	
Date	S	
Company	Kennody/Sent	
Signature	Myha	
Print Name	Dean Malle	

Kennedy/Jenks Consultants, Inc. @ 2001

2221 Ross Way •

Tacoma, WA 98421

(253) 272-4850

02/25/2002

Kennedy/Jenks 530 S. 336th

Federal Way, WA 98003

Attn: Dean Malte

Project:

Simon & Sons

Sample Matrix:

Water

Date Sampled:

02/19/2002

Date Received:

02/19/2002

Spectra Project:

2002020160

Spectra #	Client ID  IB-FEB02 (Field Filtered)	Analyte Dissolved Copper	$\frac{\text{Result}}{3}$	Units ug/L	Method EPA 220.2
2	IB-FEB02 (Total Recoverable)	Copper	13	ug/L	EPA 220.2

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/scj

100 2020 CHOO Kennedy/Jenks Consultants

Sample Chain-of-Custody/Analysis Request

	Lab Destination SPECTRA	Address 22.2 1.055 024V	TALORIA, VOA SSAZI	Telephone 253-272, 4852	Carrier/Way Bill No	Comment/Conditions (container type, container number, etc.)	DISSOLVED COPPER SANIFLE	IS FIELD FILTERED	NEDS 3 MAY 1 DETECTION	CIMIT OR CONTRB -	ANALYZE ON CHAPFIE	FLP NACE.			(4) Preservation of sample.
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	CESREDOT to DEAN WIN	Site Sim OL & SONS Company Kenneda Janks	O Address 520 5. 320.46. ST	1	Eax 25.5.2.2.455	Collection (2) (3) Date Time Type Depth Comp.	3								
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(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.

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2221 Ross Way Tacoma, WA 98421 • (253) 272-4850

05/02/2002

Kennedy/Jenks 530 S. 336th

Federal Way, WA 98003

Attn: Dean Malte

Project:

Simon & Sons 986054.00

Client ID:

Seep1-Apr02

Sample Matrix:

Water

Date Sampled:

04/26/2002

Date Received:

04/26/2002

Spectra Project: 2002040299

Spectra Number: 1

Analyte	Result	Units	Method
Copper	< 1	ug/L	EPA 220.2
Dissolved Copper	< 1	ug/L	EPA 220.2
Dissolved Lead	< 1	ug/L	EPA 239.2
Lead	< 1	ug/L	EPA 239.2

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NJ regeral Way K/J No/File-

Route\_ Return To/By

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/scj

Page 1 of 1

	Lab Destination Specifia  Address ZZZ ( PLOSS WAY  Actoria WH 9842  Telephone ZS 3-272-4850  Carrier/Way Bill No.	Comment/Gonditions (container type, container number, etc.)	* Field Filtered		Analyze by graphile	FURNACE - 12 Mg/1	or fower reporting	1.M. 15 18000		(4) Preservation of sample.
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(2) Specify type of sample(s): Water (W), Solid (5), or indicate type.

(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.

(5) Write each analysis requested across top. Place an indicate type of analysis needed for each sample.

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2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850

06/24/2002

Kennedy/Jenks 530 S. 336th

Federal Way, WA 98003

Attn: Dean Malte

Lead

Project:

Simon & Sons

Client ID:

ug/L

Seep1-Jun02

Sample Matrix:

Water

EPA 239.2

Date Sampled:

06/14/2002

Date Received:

06/14/2002

Spectra Project: 2002060187

Spectra Number: 1

Analyte	Result	Units	Method
Copper	3	ug/L	EPA 220.2
Dissolved Copper	< 1	ug/L	EPA 220.2
Dissolved Lead	< 1	ug/L	EPA 239.2

< 1

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/scj

Page 1 of 1

	Lab Destination S PEC 1 FA  Address 2 22   Ross Wey  Trawn WH 9592	Carrier/Way Bill No.	Comment/Conditions (container type, container type, container type, container number, etc.)	* Teld Filtered			Analyze by graphite	to meet had or	lower reporting inst	Jegurie C.	)		(4) Preservation of sample.
(5) Analyses Requested	<u></u>	92.55	7	×						-			
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(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.

(5) Write each analysis requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

Time Date Company Sample Received By Signature 100 K 1040 1:45 Time Sample Relinquished By Signature

2221 Ross Way • Tacoma, WA 98421 (253) 272-4850

08/23/2002

Kennedy/Jenks 530 S. 336th

Federal Way, WA 98003

Attn: Dean Malte

Project:

Simon & Sons

Client ID:

SEEP 1-Aug02

Sample Matrix:

Water

Date Sampled:

08/20/2002

Date Received:

08/20/2002

Spectra Project: 2002080219

Spectra Number: 1

Analyte	Result	Units	Method
Copper	12	ug/L	EPA 220.2
Dissolved Copper	< 1	ug/L	EPA 220.2
Dissolved Lead	1	ug/L	EPA 239.2
Lead	4	ug/L	EPA 239.2

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a6/scj

Page 1 of 1

# Sample Chain-of-Custody/Analysis Request $\angle 00.20902/9$

Kennedy/Jenks Consultants

ossible Hazards	ızards		X Analyses Requested	
3	Client Kennedy Jenys	Report to TEAN MALTE		Lab Destination SVELTRA
	Site Simon & Cars	Company Kennedy Venks	イ イ マラ	Address 3321 C255 WAY
Projec	Project No. 18 6054.00	Address 530 5, 22 C th A.		TREONIA WA 98421
Sampler	Sampler Name DWM/JRB	I Caleral , Day, W.A.	₩ 20	Telephone 253 - 47 850
Tele	Telephone 263-874-8555	Fax 258-452-3435	70 <del>9</del>	Carrier/Way Bill No.
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